

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

1 Identification

- Product identifier
- Trade name: Epifanes Poly-urethane Brushthinner
- CAS Number:
108-65-6
- EC number:
203-603-9
- Index number:
607-195-00-7
- Application of the substance / the mixture
See our technical datasheet for application of this product.
Kwastverduunning
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
P.O. box 166
1430 AD Aalsmeer
Netherlands
tel.+31 297-360666
fax.+31 297-342078
email:info@epifanes.nl
- Information department: Research & Development.
- Emergency telephone number:
Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- Label elements
- GHS label elements
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



GHS02



GHS07

- Signal word Warning

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 1)

- Hazard-determining components of labeling:
2-methoxy-1-methylethyl acetate
- Hazard statements
H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.
- Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 0
Fire = 2
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 0
Fire = 2
Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
108-65-6 2-methoxy-1-methylethyl acetate
- Identification number(s)
- EC number: 203-603-9
- Index number: 607-195-00-7

- Dangerous components:

CAS: 70657-70-4	2-methoxypropyl acetate	<0.3%
EINECS: 274-724-2	☠ Flam. Liq. 3, H226	
Index number: 607-251-00-0	☠ Repr. 1B, H360	
	☠ STOT SE 3, H335	

US

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 2)

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Keep away from ignition sources
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

· PAC-1:

All components have the value 50 ppm.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 3)

· PAC-2:		
All components have the value 1,000 ppm.		
· PAC-3:		
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
70657-70-4	2-methoxypropyl acetate	5,000 ppm

7 Handling and storage

- Handling:
- Precautions for safe handling
Keep away from heat and direct sunlight.
Work only in fume cabinet.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:
No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm

- Regulatory information WEEL: Guide to Occupational Exposure Values (AIHA WEELs)
- Additional information:
The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 4)

Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Filter AX

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable: Butyl rubber, glove thickness 0.7 mm, > 480 min breakthrough time / permeation to EN374.

· As protection from splashes gloves made of the following materials are suitable:

(recommended: at least protection index 2, corresponding > 30 minutes permeability time / Permeation according to EN 374)

chloroprene rubber (CR) - 0.5 mm thickness

nitrile rubber (NBR) - 0.4 mm thickness

· Eye protection:



Tightly sealed goggles

· Body protection: Use protective suit.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: Colorless

· Odor: Ester-like

· Odor threshold: Not determined.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 5)

· pH-value:	4
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	146.4 °C (295.5 °F)
· Flash point:	44 °C (111.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
· Vapor pressure at 20 °C (68 °F):	3.37 hPa (2.5 mm Hg)
· Density at 20 °C (68 °F):	0.97 g/cm ³ (8.09465 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water at 20 °C (68 °F):	220 g/l
· Partition coefficient (n-octanol/ water):	Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	1.2 mPas
Kinematic:	Not determined.
Organic solvents:	99.7 %
VOC content:	99.71 %
	VOC content:
	967.2 g/l / 8.07 lb/gal
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Possibility of hazardous reactions Contact with acids releases flammable gases.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 6)

- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values that are relevant for classification:

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg bw (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization:
Sensitizing effect through inhalation is possible with prolonged exposure.
- Additional toxicological information:

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

- NTP (National Toxicology Program)
None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- Toxicity

- Aquatic toxicity:

108-65-6 2-methoxy-1-methylethyl acetate

EC50	408-500 mg/l (daphnia magna) (48 uur/hour)
IC 50	>1,000 mg/l (Algae, Growth inhibition test) (72 uur/hour)
LC50	100-180 mg/l (Fish Acute Toxicity Study) (96 uur/hour)

- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 1 (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.

(Contd. on page 8)

Safety Data Sheet
 acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 7)

- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
 - DOT, ADR, IMDG, IATA
 - UN proper shipping name
 - DOT
 - ADR
 - IMDG
 - IATA
- UN1263
 CONSUMER COMMODITY, ORM-D
 Paint
 1263 PAINT
 CONSUMER COMMODITY, ORM-D
 PAINT
 PAINT

· Transport hazard class(es)

· DOT



- Class
 - Label
- 3 Flammable liquids
 3

· ADR



- Class
 - Label
- 3 (F1) Flammable liquids
 3

· IMDG, IATA



- Class
- 3 Flammable liquids

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 8)

· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E, S-E
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Remarks:	CERCLA/DOT RQ: 617gal./4786 lbs.
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

ACTIVE

(Contd. on page 10)

Safety Data Sheet
 acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 9)

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labeling:

2-methoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/12/2021

Reviewed on 01/12/2021

Trade name: Epifanes Poly-urethane Brushthinner

(Contd. of page 10)

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

- Water hazard class:
Water hazard class 1 (Assessment by list): slightly hazardous for water.
- Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environment protection department.
- Contact: J.J. van Dijk
- Date of preparation / last revision 01/12/2021 / 3
- Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 3: Flammable liquids - Category 3
Repr. 1B: Reproductive toxicity - Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
- * Data compared to the previous version altered.